Blakely, Sokoloff, Taylor & Zafman LLP (714) 557-3800

Title: Fingerprint Minutiae matching Using Scoring Techniques

1st Named Inventor: Tinku Acharya Application No.: 10/734,335

Sheet: 1 of 7

Docket No.: 42P14839



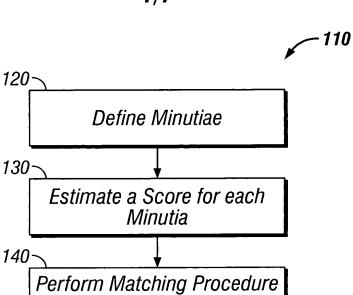


FIG. 1

utilizing PSPM

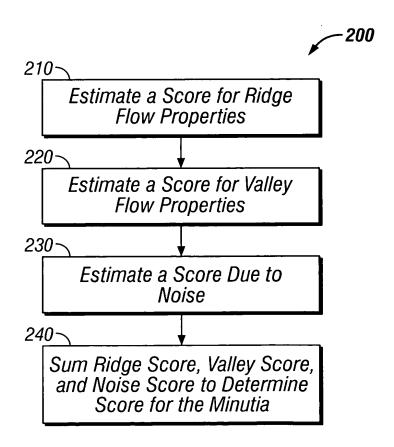


FIG. 2

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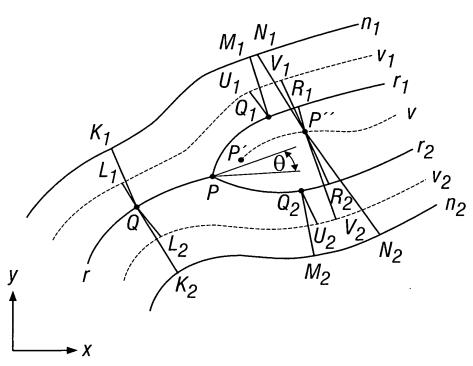


FIG. 3

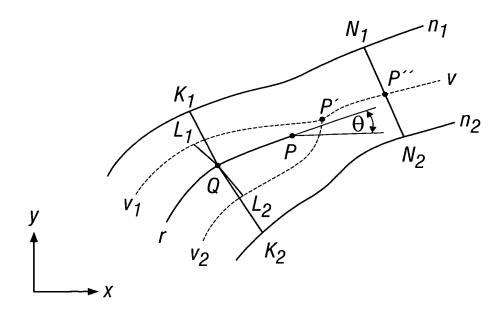


FIG. 4

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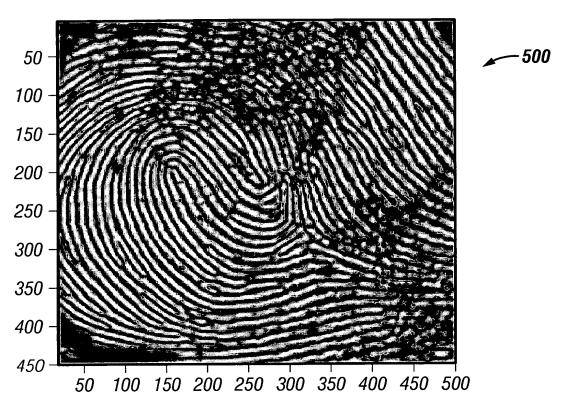


FIG. 5

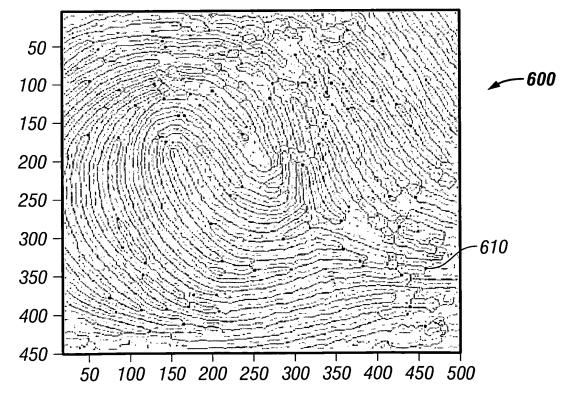


FIG. 6

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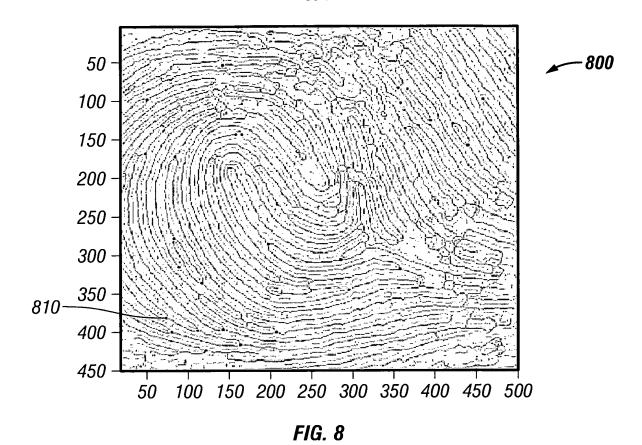
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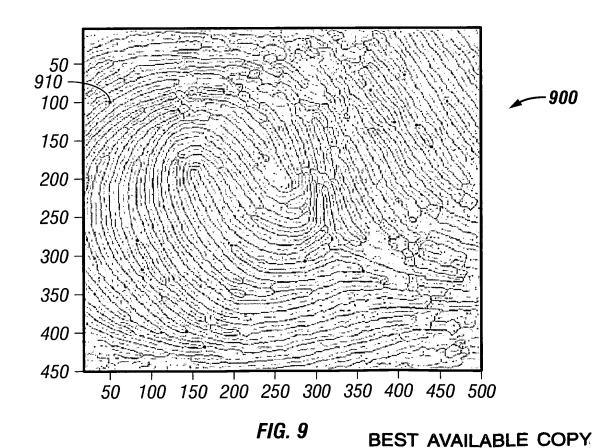
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345	210	BM	251	4
<i>352</i>	<i>375</i>	BM	111	5 5
263	407	BM	31	5
130	333	BM	<i>340</i>	6 8
261	220	BM	<i>50</i>	8
362	116	BM	46	9
357	248	BM	286	10
264	437	BM	211	15
<i>50</i>	196	BM	266	19
<i>250</i>	234	BM	243	34
433	124	BM	<i>253</i>	37
100	<i>350</i>	BM	223	39
183	<i>53</i>	BM	<i>334</i>	43
409	84	BM	251	45
187	88	BM	<i>328</i>	45
391	77	BM	245	47
409	206	BM	<i>250</i>	52
347	119	BM	224	53
152	<i>358</i>	BM	37	53
356	291	BM	291	53
406	144	BM	251	59
146	415	BM	29	59
425	164	BM	270	62
297	197	BM	43	70
173	432	BM	217	92
290	87	BM	19	94
115	55	BM	300	95
407	114	BM	<i>254</i>	96
317	282	BM	105 205	97
330	352 201	BM Tha	255 210	99 53
101	361	TM TM	219 15	<i>52</i>
142	<i>388</i>	TM TM	15 10	55 55
82	400	TM TAA	40 27	55 05
327 115	92 450	TM TM	27 215	95 99
115	450	TM	210	33

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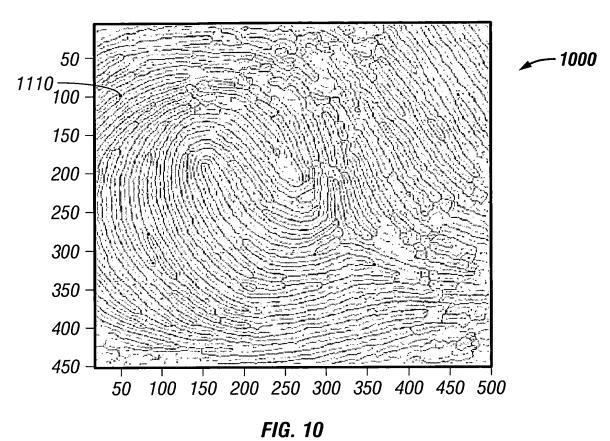
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Number of	CPU time i	% Savings	
Sample Sets, K	Standard Matching	PSPM	/o Saviriys
10	39,696,066	1,280,111	96.70
20	85,016,140	3,457,594	95.90
50	228,242,586	11,784,255	94.83
100	548,033,187	19,754,415	96.39
200	1075,977,761	39,255,959	96.35

FIG. 11

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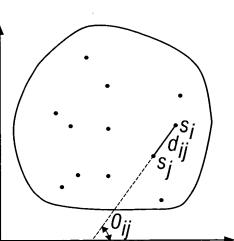


FIG. 12A

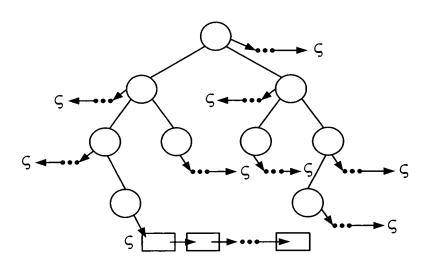


FIG. 12B

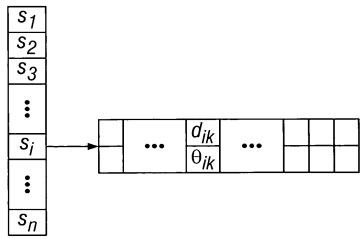


FIG. 12C

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